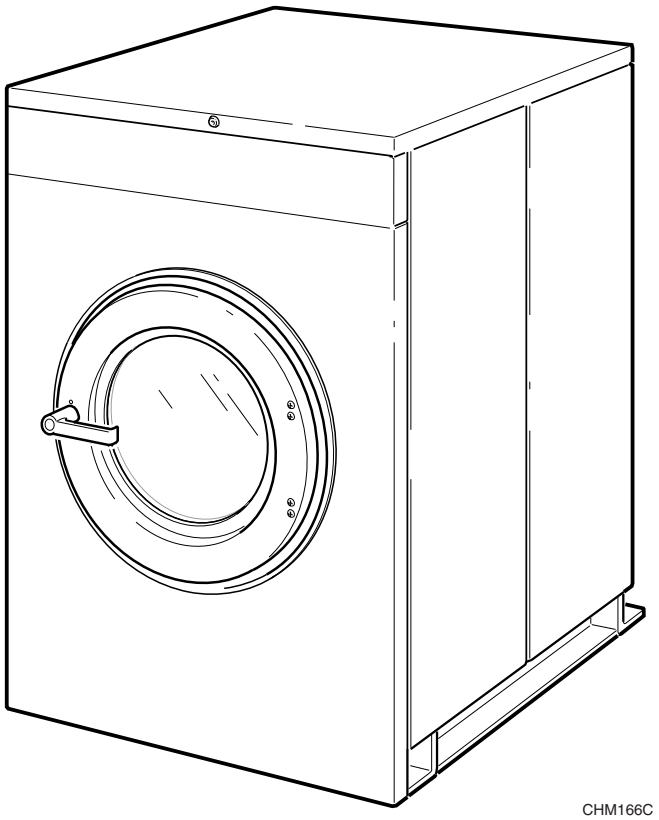
Washer-Extractors

Cabinet Hardmount
B-Series Microcomputer for Coin Models
2 Speed and Variable-Speed

Refer to Page 5 for Model Identification

Operation/Maintenance

NOTA: El manual en español aparece después del manual en inglés.



CHM166C

Keep These Instructions for Future Reference.
(If this machine changes ownership, this manual must accompany machine.)

Alliance Laundry Systems

www.comlaundry.com

Part No. F232172R3
November 2005

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Notes

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Safety Information

Explanation of Safety Messages

Precautionary statements (“DANGER,” “WARNING” and “CAUTION”), followed by specific instructions, are found in this manual and on machine decals. These precautions are intended for the personal safety of the operator, user, servicer and those maintaining the machine.

DANGER

DANGER indicates the presence of a hazard that will cause severe personal injury, death, or substantial property damage if the danger is ignored.

WARNING

WARNING indicates the presence of a hazard that can cause severe personal injury, death, or substantial property damage if the warning is ignored.

CAUTION

CAUTION indicates the presence of a hazard that will or can cause minor personal injury or property damage if the caution is ignored.

Additional precautionary statements (“IMPORTANT” and “NOTE”) are followed by specific instructions.

IMPORTANT: The word “IMPORTANT” is used to inform the reader of specific procedures where minor machine damage will occur if the procedure is not followed.

NOTE: The word “NOTE” is used to communicate installation, operation, maintenance or servicing information that is important but not hazard related.

Important Safety Instructions

WARNING

To reduce the risk of fire, electric shock, serious injury or death to persons when using your washer, follow these basic precautions:

W023

1. Read all instructions before using the washer.
2. Refer to the GROUNDING INSTRUCTIONS in the INSTALLATION manual for the proper grounding of the washer.
3. Do not wash textiles that have been previously cleaned in, washed in, soaked in, or spotted with gasoline, kerosene, waxes, cooking oils, dry-cleaning solvents, or other flammable or explosive substances as they give off vapors that could ignite or explode.
4. Do not add gasoline, dry-cleaning solvents, or other flammable or explosive substances to the wash water. These substances give off vapors that could ignite or explode.
5. Under certain conditions, hydrogen gas may be produced in a hot water system that has not been used for two weeks or more. HYDROGEN GAS IS EXPLOSIVE. If the hot water system has not been used for such a period, before using a washing machine or combination washer-dryer, turn on all hot water faucets and let the water flow from each for several minutes. This will release any accumulated hydrogen gas. The gas is flammable; do not smoke or use an open flame during this time.
6. Do not allow children to play on or in the washer. Close supervision of children is necessary when the washer is used near children. This is a safety rule for all appliances.
7. Before the washer is removed from service or discarded, remove the door to the washing compartment.
8. Do not reach into the washer if the wash drum is moving.

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9. Do not install or store the washer where it will be exposed to water and/or weather.
10. Do not tamper with the controls.
11. Do not repair or replace any part of the washer, or attempt any servicing unless specifically recommended in the user-maintenance instructions or in published user-repair instructions that the user understands and has the skills to carry out.
12. To reduce the risk of an electric shock or fire, DO NOT use an extension cord or an adapter to connect the washer to the electrical power source.
13. Use washer only for its intended purpose, washing textiles.
14. ALWAYS disconnect the washer from electrical supply before attempting any service. Disconnect the power cord by grasping the plug, not the cord.
15. Install the washer according to the INSTALLATION INSTRUCTIONS. All connections for water, drain, electrical power and grounding must comply with local codes and be made by licensed personnel when required.
16. To reduce the risk of fire, textiles which have traces of any flammable substances such as vegetable oil, cooking oil, machine oil, flammable chemicals, thinner, etc. or anything containing wax or chemicals such as in mops and cleaning cloths, must not be put into the washer. These flammable substances may cause the fabric to catch on fire by itself.
17. Do not use fabric softeners or products to eliminate static unless recommended by the manufacturer of the fabric softener or product.
18. Keep washer in good condition. Bumping or dropping the washer can damage safety features. If this occurs, have washer checked by a qualified service person.
19. Replace worn power cords and/or loose plugs.
20. Be sure water connections have a shut-off valve and that fill hose connections are tight. CLOSE the shut-off valves at the end of each wash day.
21. Loading door MUST BE CLOSED any time the washer is to fill, tumble or spin. DO NOT bypass the loading door switch by permitting the washer to operate with the loading door open.
22. Always read and follow manufacturer's instructions on packages of laundry and cleaning aids. Heed all warnings or precautions. To reduce the risk of poisoning or chemical burns, keep them out of the reach of children at all times (preferably in a locked cabinet).
23. Always follow the fabric care instructions supplied by the textile manufacturer.
24. Never operate the washer with any guards and/or panels removed.
25. DO NOT operate the washer with missing or broken parts.
26. DO NOT bypass any safety devices.
27. Failure to install, maintain, and/or operate this washer according to the manufacturer's instructions may result in conditions which can produce bodily injury and/or property damage.

NOTE: The WARNINGS and IMPORTANT SAFETY INSTRUCTIONS appearing in this manual are not meant to cover all possible conditions and situations that may occur. Common sense, caution and care must be exercised when installing, maintaining, or operating the washer.

Any problems or conditions not understood should be reported to the dealer, distributor, service agent or the manufacturer.

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Introduction

Model Identification

Information in this manual is applicable to these models:

HC20BC2	HC30BY2	HC60BX2	SC20BX2	SC40BL2	SC60BX2
HC20BL2	HC40BC2	HC60BXF	SC20BY2	SC40BX2	SC60BXF
HC20BX2	HC40BL2	HC60BYF	SC25BC2	SC40BY2	SC60BYF
HC20BY2	HC40BX2	HC60BY2	SC25BL2	SC50BC2	SC60BY2
HC25BC2	HC40BY2	HC80BCV	SC25BX2	SC50BL2	SC80BCV
HC25BL2	HC50BC2	HC80BLV	SC25BY2	SC50BX2	SC80BLV
HC25BX2	HC50BX2	HC80BXV	SC30BC2	SC50BY2	SC80BNV
HC25BY2	HC50BY2	HC80BYV	SC30BL2	SC60BC2	SC80BXV
HC30BC2	HC60BC2	HC125BYV	SC30BX2	SC60BCF	SC80BYV
HC30BL2	HC60BCF	SC20BC2	SC30BY2	SC60BL2	SC125BYV
HC30BX2	HC60BLF	SC20BL2	SC40BC2	SC60BLF	

Introduction

The “B” electronic control is composed of the electronic control unit and the control fuse board with wiring harness. Only an authorized person should look inside the machine. First TURN OFF POWER, open lid and remove any cover present. Make sure door lock circuit has fully discharged. The door unlock capacitor can retain high electrical charge, even when the machine’s electrical inputs are disconnected, until it has discharged. Some machines are equipped with an “amber” indicator light facing upward in the control compartment. If this is on, wait until it goes off (indicating when high voltage in the door lock circuit has discharged).

Electronic Control Unit

This portion of the control contains the “intelligence” – the micro-controller and the miscellaneous components on the printed circuit (PC) board. The board has a metal cover, which MUST be in place at all times during machine operation. Operation of the machine without this cover installed will void the warranty.

The control unit monitors and responds to input, gives information about the status of the washer and monitors and responds to inputs from the user interface (keypad). The control provides signals to the control output unit, which in turn operates the components that control the machine functions. This is located behind the machine control panel.

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Control Output Fuse Board

This portion of the control contains the power supply for the control unit, and also the switching devices which power the components in the machine, all of which are on the output PC board. The switching devices are controlled by the control unit, and are solid state.

Harnessing

Wiring harnesses are modular – harnesses common to various configurations are similar, while those specific to a certain configuration can be added. There are harnesses for inputs to the control unit, for outputs from the control power/output unit to the machine components, and for the main incoming power to the control power/output unit.

Communications

Central Pay System

(Central Pay System Models Only)

The models are usually designated by the “Prep for Central Pay” option. The control will accept communications with the central pay system in order to perform vending transactions to pay for cycles.

For detailed information on the Central Pay System Communications, refer to the manufacturer.

Card Reader

(Card Reader Models Only)

The models are usually designated by the “Prep for Card Reader” option. The control will accept communications with a Card Reader in order to perform vending transactions when a card is inserted to pay for cycles. The Card Reader can also allow the owner to program and collect audit information.

For detailed information on the Card Reader Communications, refer to the manufacturer.

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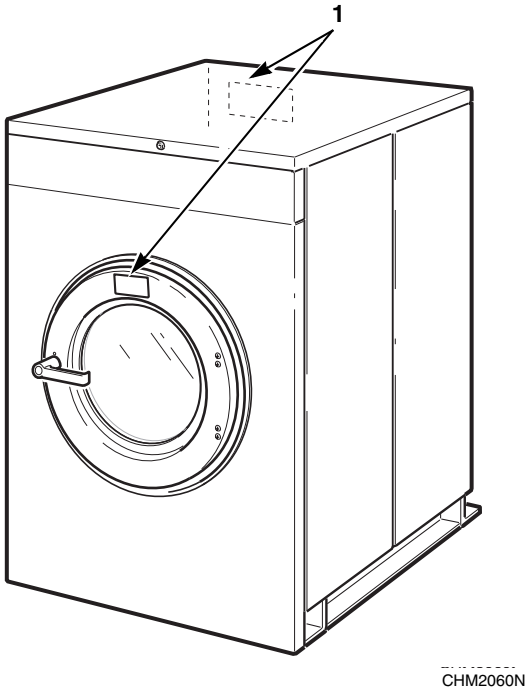
Nameplate Location

The nameplate is located at the rear of the machine and inside door. Always provide the machine's serial number and model number when ordering parts or when seeking technical assistance.



1 Nameplate

Figure 1

Replacement Parts

If literature or replacement parts are required, contact the source from whom the machine was purchased or contact Alliance Laundry Systems at (920) 748-3950 for the name and address of the nearest authorized parts distributor.

Customer Service

For technical assistance, call: (920) 748-3121 Ripon, Wisconsin.

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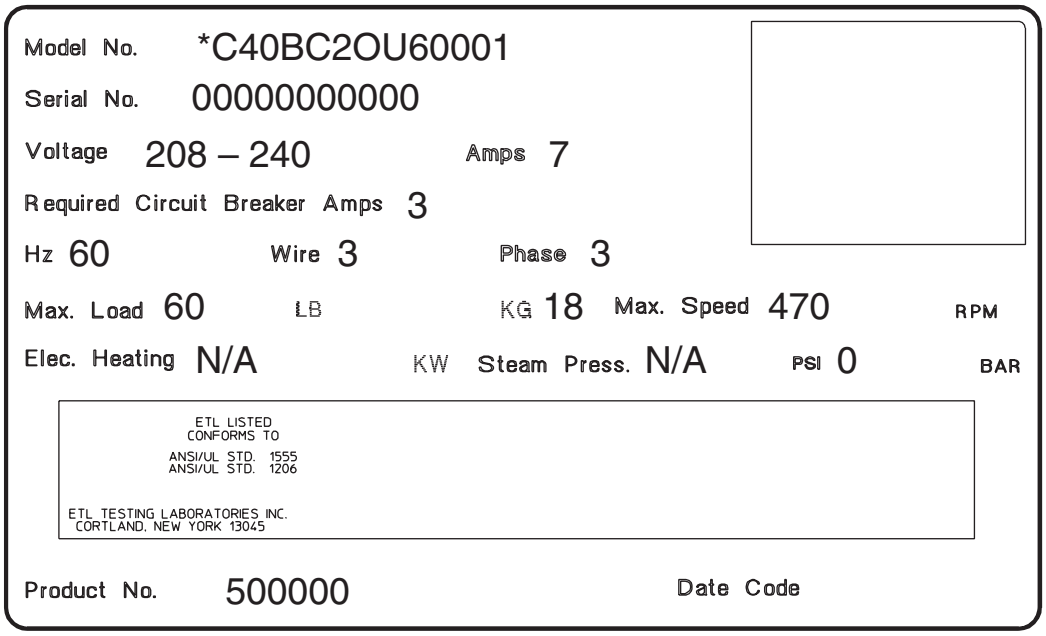
Model Number Familiarization Guide	
Sample Model Number: ***C40BC2OU60001**	
***C**	Model Number Prefix
40	Washer-Extractor Capacity (pounds dry weight of laundry)
B	Type of Electrical Control (B = B – control)
C	Actuation (C = Coin drop)
2	Washer-Extractor Speed Capability (2 = 2 speed)
O	Electrical Characteristics
U6	Design Series
0001	Option Identification (varies from machine to machine)

* Denotes Brand



EXAMPLE OF NAMEPLATE

CHM483R

Figure 2

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Summary of Control Outputs and Inputs

Outputs

General outputs provide signals to operate the following components.

1. Hot Fill Valve
2. Cold Fill Valve
3. Drain Valve (normally open)
4. Door Lock Solenoid Coil
5. Door Unlock Solenoid Coil
6. Supply 1 (detergent)
7. Supply 2 (bleach)
8. Supply 3 (sour/softener)
9. Optional 3rd (auxiliary) Fill Inlet (governed by the configuration settings)
10. Optional Heat
11. *Prep for Card Reader or Central Pay (“machine available signal”)

For standard models, the components for outputs shown as “optional” will not be populated on the output printed circuit board.

AC outputs are solid state outputs that operate either 120 Volt AC or 220 Volt AC (nominal voltage) components, depending on the control voltage configuration. Outputs are fused appropriately.

Inputs

1. Low Water Level
2. Medium Water Level
3. High Water Level
4. Door
5. Coin 1 Signal
6. Coin 2 Signal
7. *Prep for Card Reader or Central Pay (“start pulse”)

* This allows machine to interface with the card reader or the central pay system. “Start Pulse” originates from the reader/ central pay system, and this satisfies the programmed vend. B control provides “Machine Available” signal to reader/ central pay when it is ready to accept payment. Refer to Machine Electrical Schematic.

Control Voltage

The control power supply can be configured to operate on 110 Volt AC nominal RMS input voltage 50/60 Hertz, OR 220 Volt AC nominal RMS input voltage 50/60 Hertz.

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Notes

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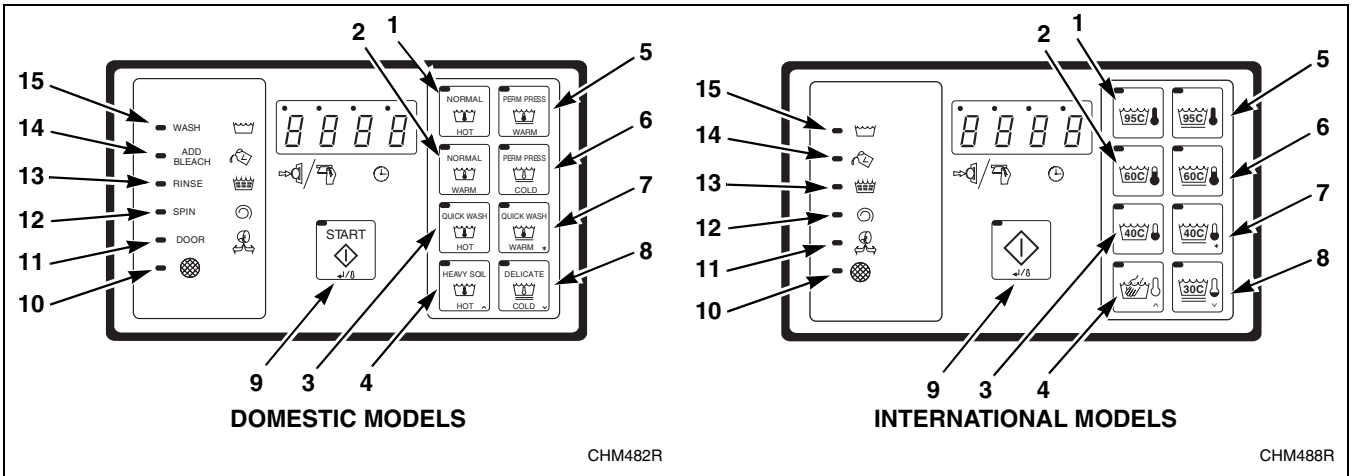
Operation

Control Panel



DOMESTIC MODELS CHM482R

INTERNATIONAL MODELS CHM488R

1	Cycle 1	**9**	START Keypad
2	Cycle 2	**10**	"Clean Filter" Indicator LED (Active for all C80 and C60 X voltage only Models)
3	Cycle 3		
4	Cycle 4/Up Edit	**11**	Door Open LED
5	Cycle 5	**12**	Spin Cycle LED
6	Cycle 6	**13**	Rinse Cycle LED
7	Cycle 7/Set Up (*) Keypad †	**14**	Add Bleach LED
8	Cycle 8/Down Edit		

Figure 3

†Set Up (*) keypad is used in cycle programming in program mode. Refer to Programming Manual.

Summary of Major Features

LED for Machine Functions	LED lights inform operator which machine function is active. DOOR LED lights to inform operator that the door can be opened or should be closed. The circle LED indicates that the filter needs cleaning.
Main LED display	4 digit LED display counts down vend amount and cycle time. Lights in LED display indicate out-of-balance conditions and, in test cycle, water level. Display shows "01" as the final shakeout time.
Cycle selection keypads	Eight (8) cycle select keys with LED indicator to show selected cycle.
START keypad	Press to start a cycle after payment is made. LED light will flash to prompt user to press key.
Payment Methods	Coin – Single or dual denomination coin drop meter, prepped for after market coin drop Card – "Prepped" for aftermarket card reader (single vend, start pulse/busy signals) Remote – "Prepped" for aftermarket remote pay system (single vend, start pulse/busy signals)
Test Cycle with "Advance"	For troubleshooting. Advance rapidly through test cycle by pressing the UP key. Refer to Programming Manual.
Fill Temperatures	Cold, Hot, Warm
Supplies	Three (3) – Supply 1, 2, and 3
Agitation Types	Normal or Gentle
Drain Options	Normally open gravity drain
Cycle Count	0 to 9999 cannot be reset – Rolls over after 9999
Automatic Unlock after Power Failure During Cycle	Standard – 2.5 minutes with magnetic latching door lock solenoid

Table 1

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Display Indicators

Table 2 lists the various displays and what they mean. The operator should become familiar with these machine displays.

Display	Meaning
tESt	Diagnostic test cycle selected or enabled
SPIn	Spin (extract) step
SUP1	Supply signal 1 (“S1” output), normally detergent
SUP2	Supply signal 2 (“S2” output), normally bleach
SUP3	Supply signal 3 (“S3” output), normally softener
SdLY	Spin coast (motor coasts after high speed extract)
CFIL	Cold Fill
HFIL	Hot Fill
bFIL	Warm Fill (cold + hot)
bLCH	Control will also light “add bleach” indicator
PASS	Variable-speed ONLY – balance “PASS” condition; shows in “test” cycle only
FAIL	Variable-speed ONLY – balance “FAIL” condition; shows in “test” cycle only
bAL?	Variable-speed ONLY – meaning: “Do you wish to enter balance detection test routine?”
CY__	Cycle number (followed by a space and number 1 through highest cycle number)
norn	Normal agitation selected
gEnt	Gentle (reduced) agitation selected
For	Wash speed forward (during test cycle)
rEv	Wash speed reverse (during test cycle)
dISt	Variable-speed ONLY – distribution speed (during test cycle)
LO	Low water level
nEd	Medium water level
HI	High water level; also denotes “HIGH” spin speed in variable speed “test” cycle.
CEL	Display all temperatures in degrees Celsius
FAr	Display all temperatures in degrees Fahrenheit
___C	The first 3 digits are reserved for temperature reading, C indicates “degrees Celsius”
___F	The first 3 digits are reserved for temperature reading, F indicates “degrees Fahrenheit”
FILL	“Fill error” – machine did not fill to programmed water level within 10 minutes; also shows during Rapid Advance mode, refer to Programming Manual
door	“Door” opened during cycle
SHUt/door	Machine user must “shut door” of the washer to allow the cycle to begin

Table 2 (Continued)

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Table 2 (Continued)

Display	Meaning
CAnt/OPEn	Control cannot unlock the door
COIn	Control will interpret both coin inputs as signals from a drop coin meter meaning coins must fall through slot at a certain rate to be counted as valid coins.
Con1/dEnO	Denomination assigned for coin 1 input (example: .25 would mean a US quarter)
Con2/dEnO	Denomination assigned for coin 2 input (example: 100 would mean a US dollar)
CArd	Control will interpret the coin 2 input as a START signal from a card reader with no timing max restriction, meaning the signal can last any amount of time once recognized.
USH1	“Wash 1” segment
USH2	“Wash 2” segment
USH3	“Wash 3” segment
USH4	“Wash 4” segment
rIn1	“Rinse 1” segment
rIn2	“Rinse 2” segment
rIn3	“Rinse 3” segment
rIn4	“Rinse 4” segment (final rinse)
donE	Cycle has concluded
drAI	Drain selected for segment; also indicates in drain step during 2 speed version test cycle and in Rapid Advance. Refer to *Programming Manual.*
----	Flashes for a period of time (for safety) after power up while keeping outputs OFF
nodr	No drain selected for segment. Machine does not drain for segment.
SUP6/S 12	Supply 1 and 2 together
EFIL	Machine set up for extra fill valve. Valve MUST be installed on machine. “EFIL” displays when programmed for extra fill step.
nEFL	Machine not equipped with extra fill valve
HEAt	Machine heat functions enabled in control. Machine MUST be equipped with electric or steam heat capabilities.
noHt	Machine heat functions NOT enabled in control. “noHt” MUST be selected in set up mode if machine does not have electric or steam heat capabilities.
bEEP	Beep enabled during supply 2 (bleach) and at end of cycle
nobP	Beep disabled during supply 2 (bleach) and at end of cycle
S-xx	Setup/configuration code = xx (xx means setup code)
P-yy	Factory cycle ID program code = yy (yy means setup code)
Adv	Rapid Advance, refer to Programming Manual.
Erdn	Drain count error (depending on model)
Erfl	Fill error count (depending on model)
E Pr	The number of times power has been interrupted during a cycle
CyC	Cycle counter

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Operating Instructions

1. Turn on main power source (circuit breaker).
2. Push button and turn handle clockwise to open. Refer to *Figure 4*.

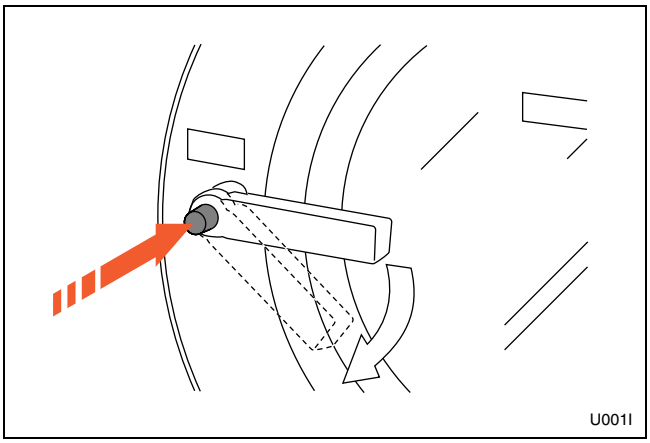

Figure 4

3. Load to capacity whenever possible. DO NOT OVERLOAD. Refer to *Figure 5*.

NOTE: Underloading can cause out-of-balance conditions that can shorten machine life.

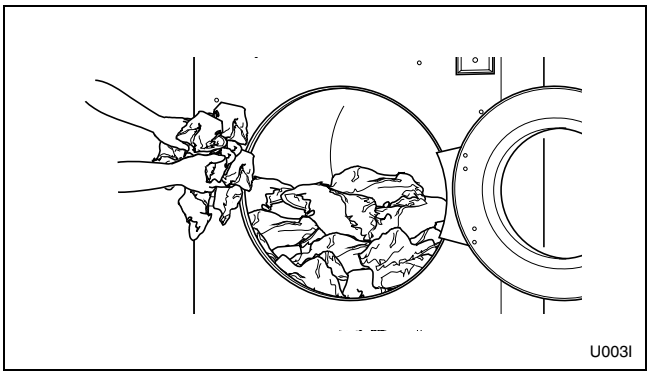

Figure 5

4. Close door and turn handle counterclockwise until button pops out. Refer to *Figure 6*.

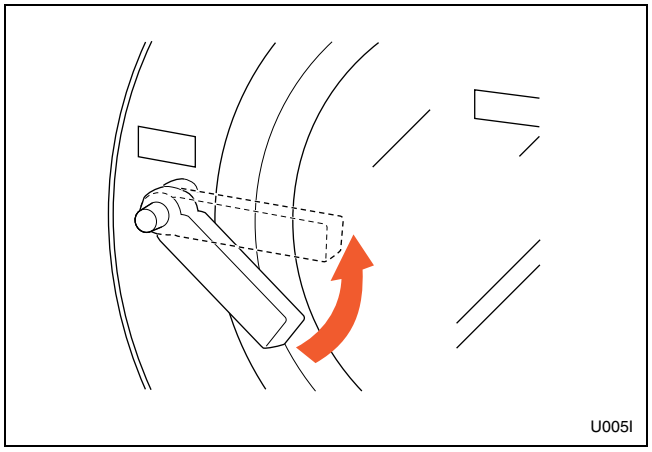

Figure 6

5. The default wash cycle will display.

NOTE: Perm Press Cold is the default cycle if none is selected.

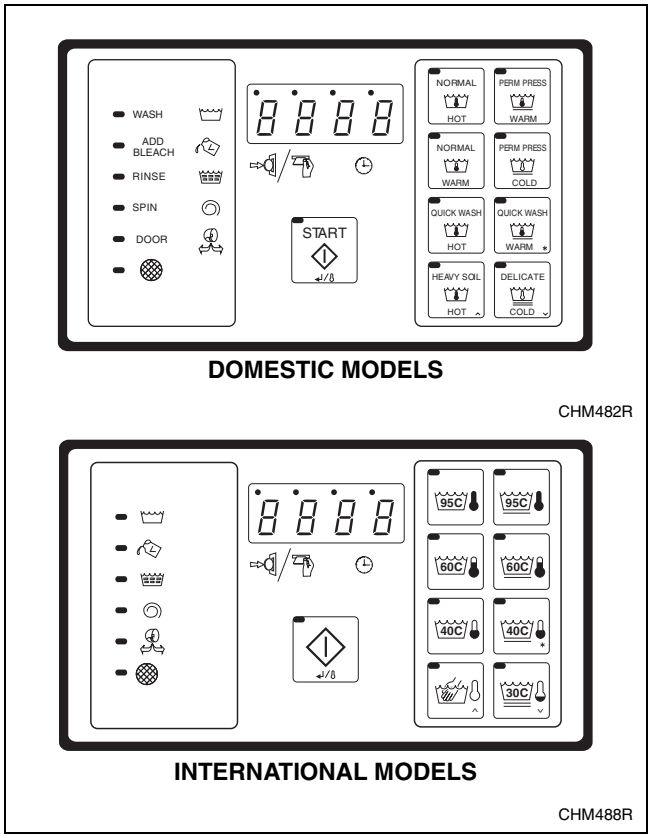

Figure 7

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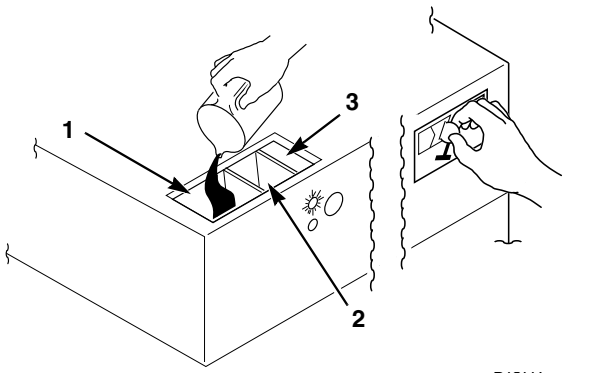
6. If desired, select a different cycle at this point or after satisfying vend. The LED indicator for that cycle will light.
7. Add liquid and/or powder supplies to supply dispenser. Refer to *Figure 8*.
   a. Add detergent to compartment 1.
   b. Add softener to compartment 3.



1 Detergent
2 Bleach
3 Softener

Figure 8

8. If the machine is a coin operated unit, add coins. As each coin is added, the vend counts down to the amount remaining.
9. If the machine is a card operated unit, insert and remove card. Contact the card reader manufacturer for details.
10. If the unit is interfaced to a central/remote pay system, go to the central/remote pay console, make payment and select the machine. Contact the pay system manufacturer for more details.
11. **When applicable**, add bleach to compartment 2 when the ADD BLEACH LED is lit.
12. Press the desired wash cycle keypad.
13. Press the START keypad.
14. During first fill, the desired wash cycle can be changed. After first fill has ended, the wash cycle active at that moment remains the chosen wash cycle.
15. When cycle is complete, display shows “donE”.

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Notes

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Maintenance

WARNING

Sharp edges can cause personal injury. Wear safety glasses and gloves, use proper tools and provide lighting when handling sheet metal parts.

W366R1

IMPORTANT: Replace all panels that are removed to perform service and maintenance procedures. Do not operate the machine with missing guards or with broken or missing parts. Do not bypass any safety devices.

Daily

IMPORTANT: Door lock should be checked daily to ensure proper operation. Also check that all safety and instruction stickers are on the machine. Any missing or illegible safety instructions stickers should be replaced immediately.

Beginning of Day

1. Inspect water inlet valve hose connections on the back of the machine for leaks.
2. Inspect steam hose connections for leaks (where applicable).
3. Verify that insulation is intact on all external wires and that all connections are secure. If exposed wire is evident, call a service technician.
4. Check door interlock before starting operation:
   a. Attempt to start the machine with the door open. The machine should not start with the door open.
   b. Close the door without locking it and attempt to start the machine. The machine should not start with the door unlocked.
   c. Close and lock the door, and start a cycle. Attempt to open the door while the cycle is in progress. The door should not open.

   If the door lock and interlock are not functioning properly, call a service technician.

End of Day

1. Clean the door gasket of residual detergent and all foreign matter.
2. Clean automatic supply dispenser lid and general area. Flush dispenser with clean water.
3. Clean the machine's top, front and side panels with mild detergent. Rinse with clean water.
4. Leave loading door open at the end of each day to allow moisture to evaporate.

NOTE: Unload the machine promptly *after each completed cycle* to prevent moisture buildup. Leave loading door open *after each completed cycle* to allow moisture to evaporate.

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Weekly

1. **For variable-speed models only**, clean the AC drive box filter(s) weekly or more frequently as needed:

NOTE: If fan filter service indicator light is on, fan filter must be cleaned immediately to prevent possible damage. Thermostat automatically resets after drive compartment cools down. LED will then extinguish after cycle run.

IMPORTANT: If filter indicator is ignored, repeated resets might shorten life of drive. Clean filter regularly to avoid indicator prompt.

   a. Open the top cover.

   b. Grasp the filter handle and pull straight up to remove filter.

   c. Wash the filter with warm water and allow filter to air-dry. As an alternative, the filter may be vacuumed clean.

IMPORTANT: The control module cover and fan filter must be in place for the fan to properly cool the AC inverter drive. Failure to observe this warning will void the warranty and could lead to expensive AC inverter drive repair.

2. Check the machine for leaks.

   a. Start an unloaded cycle to fill the machine.

   b. Verify that door and door gasket do not leak.

   c. Verify that the drain valve is operating and that the drain system is free from obstruction. If water does not leak out during the first wash segment, the drain valve is closed and functioning properly.

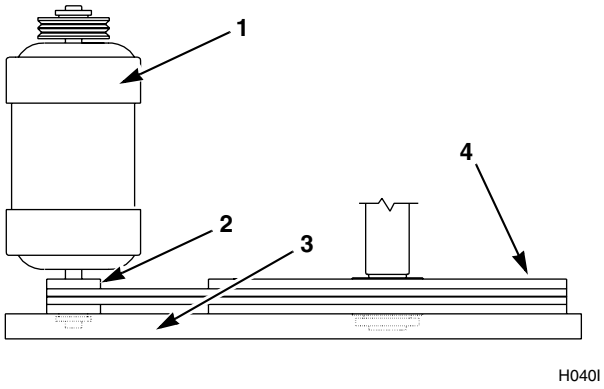
Monthly

NOTE: Disconnect power to the machine at its source before performing the monthly maintenance procedures.

1. Use the following procedures to determine if V-belt(s) require replacement or adjustment. Call a qualified service technician in either case.

   a. Check V-belt(s) for uneven wear and frayed edges.

   b. Verify pulley alignment by placing a straightedge across both pulley faces. The straightedge should make contact with the pulleys in four places. Refer to *Figure 9*.



1	Motor
2	Motor Pulley
3	Straightedge
4	Basket Pulley

Figure 9

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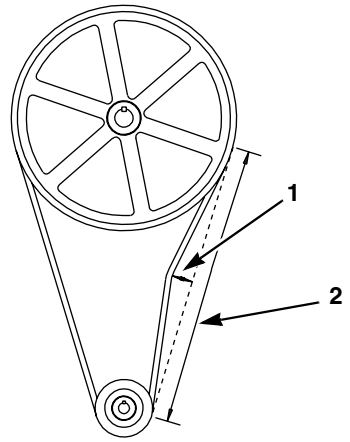
c. For flat-pulley drive systems, verify allowable distance of belt from edge of pulley. Refer to *Table 3* below.

Flat-Pulley Alignment	
Model	**Allowable Distance from Edge**
20	3/32 in. (2 mm)
25	3/32 in. (2 mm)
30	3/32 in. (2 mm)
40	3/32 in. (2 mm)
50 – 60	3/8 in. (10 mm)

Table 3

d. **For variable-speed models only**, verify that V-belts are properly tensioned by applying a set force to the belts and measuring the deflection to determine the belt tension. Refer to *Table 4* for the acceptable belt's tension ranges. Belt tension measurements should be taken as close to the center of the belt span as possible. Refer to *Figure 10*.



1 Deflection
2 Span Length

Figure 10

Belt Tension Testing for Variable-Speed Models				
Model	**Belt**	**Belt Span**	**Deflection Range**	**Force Min – Max**
35, 40	Motor-Basket	16.9 in. (428 mm)	5/16 – 11/32 in. (7.9 – 8.7 mm)	6.1 – 7.4 lbs. (27 – 33 N)
50, 60	Motor-Basket	16.8 in. (426 mm)	9/32 – 5/16 in. (7.1 – 7.9 mm)	6.1 – 7.4 lbs. (27 – 33 N)
80	Motor-Basket Single Belt	22.1 in. (561 mm)	15/32 – 1/2 in. (11.9 – 12.7 mm)	4.9 – 7.3 lbs. (21.8 – 31.5 N)
80	Motor-Basket Banded Belt	22.1 in. (561 mm)	7/32 – 1/4 in. (5.08 – 6.35 mm)	23 – 26 lbs. (102.3 – 115.6 N)

Table 4

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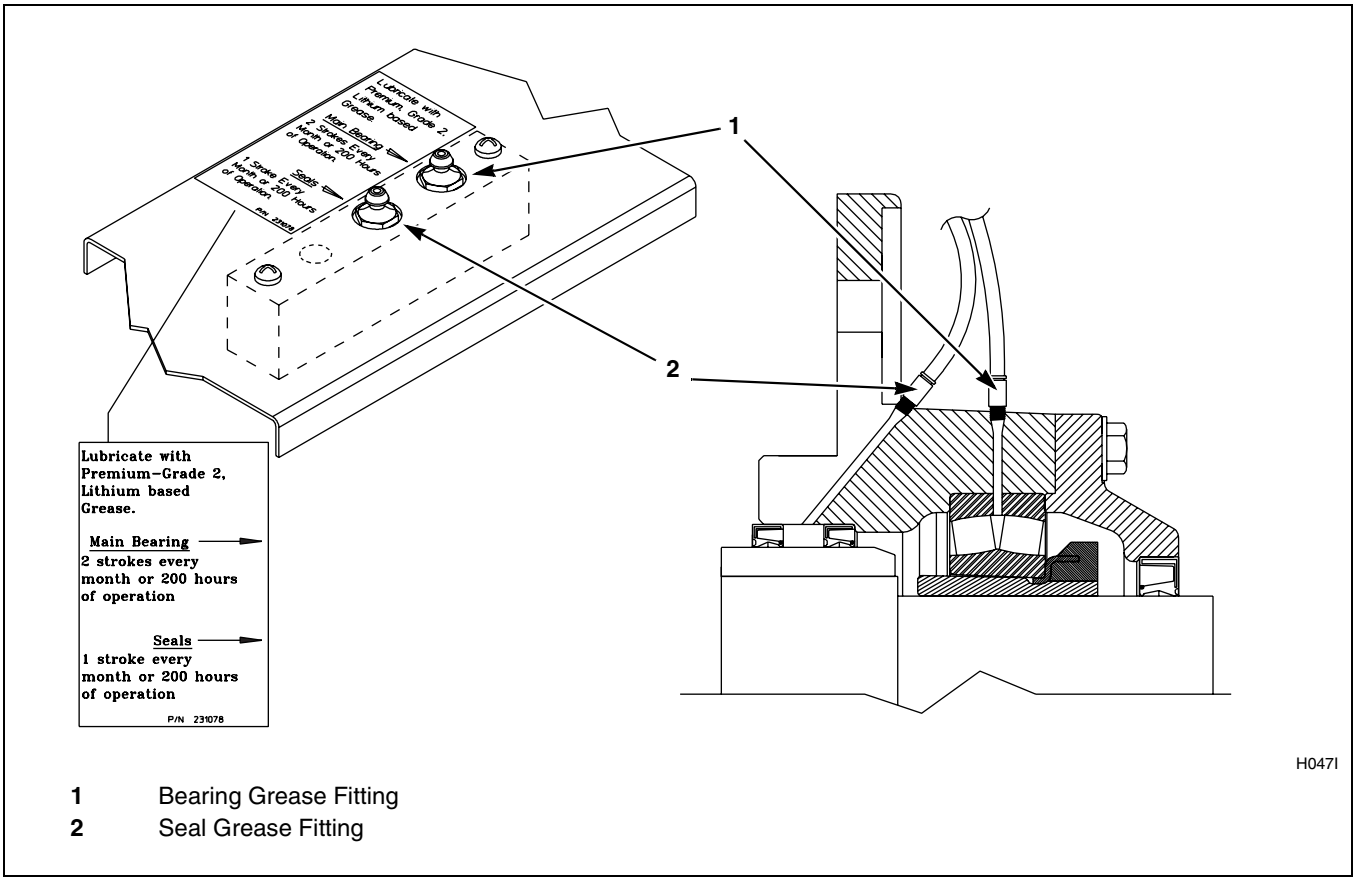

1 Bearing Grease Fitting
2 Seal Grease Fitting

Figure 11

2. **For 80 pound capacity models only**, lubricate bearings and seals each month OR after every 200 hours of operation. Refer to *Figure 11*.

   a. Use a premium-grade lithium-based #2 grease. Never mix two types of grease, such as petroleum and silicone.

   b. Pump the grease gun slowly, permitting only the following number of strokes:

   - Bearing grease fitting, 2 strokes
   - Seal grease fitting, 1 stroke

   Do not pump the grease gun until grease comes out of the bearing housing. This can result in overlubrication, causing damage to bearings and seals.

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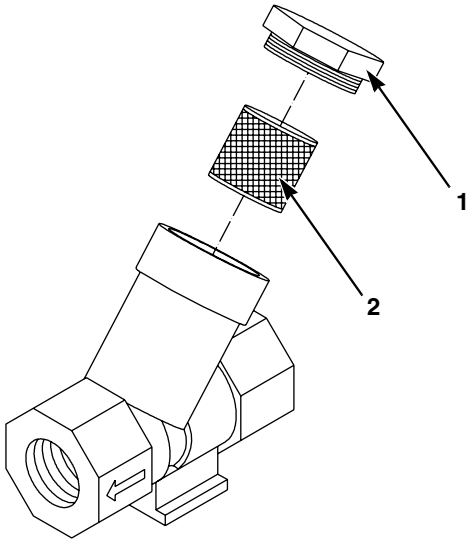
3. Remove back panel and check overflow hose and drain hose for leaks.
4. Unlock the hinged lid and check the supply dispenser hoses and hose connections.
5. Clean inlet hose filter screens:
   a. Turn water off and allow valve to cool, if necessary.
   b. Unscrew inlet hose and remove filter screen.
   c. Clean with soapy water and reinstall. Replace if worn or damaged.
6. Tighten motor mounting bolt locknuts and bearing bolt locknuts, if necessary.
7. Use compressed air to clean lint from motor.
8. Clean interior of machine, both basket and shell, by wiping with a water-soaked sponge or cloth.
9. Use compressed air to ensure that all electrical components are free of moisture and dust.
10. **For variable-speed models only**, clean AC drive cooling fan blades monthly (more often if required by the condition of the air).
    a. Open the top cover and remove the control module cover.
    b. Gently wipe the fan blades clean with a dry cloth.

Quarterly

NOTE: Disconnect power to the machine before performing the quarterly maintenance procedures.

1. Tighten door hinges and fasteners, if necessary.
2. Tighten anchor bolts, if necessary.
3. Verify that the drain motor shield is in place and secure, if so equipped.
4. Check all painted surfaces for exposed metal. (Matching paint is available from the manufacturer.)
   - If bare metal is showing, paint with primer or solvent-based paint.
   - If rust appears, remove it with sandpaper or by chemical means.

   Then paint with primer or solvent-based paint.
5. Clean customer-supplied steam filter, where applicable. Refer to *Figure 12*.
   a. Turn off steam supply and allow time for the valve to cool.
   b. Unscrew cap.
   c. Remove element and clean.
   d. Replace element and cap.



1 Cap
2 Filter Element

Figure 12

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Care of Stainless Steel

- Remove dirt and grease with detergent and water. Thoroughly rinse and dry after washing.
- Avoid contact with dissimilar metals to prevent galvanic corrosion when salty or acidic solutions are present.
- Do not allow salty or acidic solutions to evaporate and dry on stainless steel. Wipe clean of any residues.
- Do not leave sanitizers or sterilizing solutions on stainless steel equipment for prolonged periods of time.
- When an external chemical supply is used, ensure no siphoning of chemicals occurs when the washer-extractor is not in use. Highly concentrated chemicals can cause severe damage to stainless steel and other components with the machine. Damage of this kind is not covered by the manufacturer's warranty. Locate the pump below the washer-extractor's injection point to prevent siphoning of chemicals into the machine.
- If the stainless steel appears to be rusting, the source of the rust may actually be a foreign piece of iron or steel part not made of stainless steel, such as a nail or screw contacting the stainless steel surface. Tip: Paint all carbon steel parts with a heavy protective coating. Stainless steel fasteners should be used whenever possible.

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